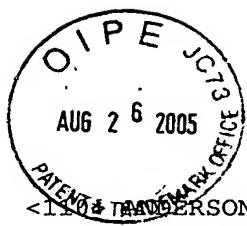


III. AMENDMENT TO THE SEQUENCE LISTING

Please replace the Sequence Listing currently on record with the substitute Sequence Listing enclosed herewith.



SEQUENCE LISTING

<110> THOMPSON, DARRELL R.

HANNA, NABIL
BRAMS, PETER
HEARD, CHERYL

<120> IDENTIFICATION OF UNIQUE BINDING INTERACTIONS BETWEEN CERTAIN ANTIBODIES AND THE HUMAN B7.1 AND B7.2 CO-STIMULATORY ANTIGENS

<130> 37003-280705

<140> 10/073138
<141> 2002-02-13<150> PCT/US97/19906
<151> 1997-10-29<150> 08/746,361
<151> 1996-11-08<150> 08/487,550
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<170> PatentIn Ver. 2.1

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Gly Ala Arg Cys Ala Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val
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Ser Pro Gly Gln Thr Ala Arg Ile Thr Cys Gly Gly Asp Asn Ser Arg
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Asn Glu Tyr Val His Trp Tyr Gln Gln Lys Pro Ala Arg Ala Pro Ile
50 55 60ctg gtc atc tat gat agt gac cgg ccc tca ggg atc cct gag cga 240
Leu Val Ile Tyr Asp Asp Ser Asp Arg Pro Ser Gly Ile Pro Glu Arg
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Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Thr Leu Thr Ile Asn Gly

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gct agt gat cat ccg gtc ttc gga gga ggg acc cg acc gtc cta Ala Ser Asp His Pro Val Phe Gly Gly Thr Arg Val Thr Val Leu 115	120	125	384
ggc ccc aag gct gcc ccc tcg gtc act ctg ttc ccg ccc tcc tct Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser 130	135	140	432
gag gag ctt caa gcc aac aag gcc aca ctg gtg tgt ctc ata agt gac Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp 145	150	155	480
ttc tac ccg gga gcc gtg aca gtg gcc tgg aag gca gat agc agc ccc Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro 165	170	175	528
gtc aag gcg gga gtg gag acc acc aca ccc tcc aaa caa agc aac aac Val Lys Ala Gly Val Glu Thr Thr Pro Ser Lys Gln Ser Asn Asn 180	185	190	576
aag tac gcg gcc agc agc tac ctg agc ctg acg cct gag cag tgg aag Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys 195	200	205	624
tcc cac aga agc tac agc tgc cag gtc acg cat gaa ggg agc acc gtg Ser His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val 210	215	220	672
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gtc ctg tcc cag gtg aag ctg cag cag tgg ggc gaa gga ctt ctg cag Val Leu Ser Gln Val Lys Leu Gln Gln Trp Gly Glu Gly Leu Leu Gln 20	25	30	96
cct tcg gag acc ctg tcc cgc acc tgc gtt gtc tct ggt ggc tcc atc Pro Ser Glu Thr Leu Ser Arg Thr Cys Val Val Ser Gly Gly Ser Ile 35	40	45	144

agc ggt tac tac tac tgg acc tgg atc cgc cag acc cca ggg agg gga Ser Gly Tyr Tyr Tyr Trp Thr Trp Ile Arg Gln Thr Pro Gly Arg Gly	50 55 60	192
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aat ccc tcc ctc aag agt cga gtc acc att tca aaa gac acg tcc aag Asn Pro Ser Leu Lys Ser Arg Val Thr Ile Ser Lys Asp Thr Ser Lys	85 90 95	288
aac cag ttc ttc ctg aac ttg aat tct gtg acc gac gcg gac acg gcc Asn Gln Phe Phe Leu Asn Leu Asn Ser Val Thr Asp Ala Asp Thr Ala	100 105 110	336
gtc tat tac tgt gcg aga ggc cct cgc cct gat tgc aca acc att tgt Val Tyr Tyr Cys Ala Arg Gly Pro Arg Pro Asp Cys Thr Thr Ile Cys	115 120 125	384
tat ggc ggc tgg gtc gat gtc tgg ggc ccg gga gac ctg gtc acc gtc Tyr Gly Gly Trp Val Asp Val Trp Gly Pro Gly Asp Leu Val Thr Val	130 135 140	432
tcc tca gct agc acc aag ggc cca tcg gtc ttc ccc ctg gca ccc tcc Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser	145 150 155 160	480
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gac tac ttc ccc gaa ccg gtg acg gtg tcg tgg aac tca ggc gcc ctg Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu	180 185 190	576
acc agc ggc gtg cac acc ttc ccg gct gtc cta cag tcc tca gga ctc Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu	195 200 205	624
tac tcc ctc agc agc gtg gtg acc gtg ccc tcc agc agc ttg ggc acc Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr	210 215 220	672
cag acc tac atc tgc aac gtg aat cac aag ccc agc aac acc aag gtg Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val	225 230 235 240	720
gac aag aaa gca gag ccc aaa tct tgt gac aaa act cac aca tgc cca Asp Lys Lys Ala Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro	245 250 255	768
ccg tgc cca gca cct gaa ctc ctg ggg gga ccg tca gtc ttc ctc ttc Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe	260 265 270	816
ccc cca aaa ccc aag gac acc ctc atg atc tcc cgg acc cct gag gtc Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val	275 280 285	864
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35 40 45	
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65 70 75 80	
tct ggg gtc cca gac aga ttc agc ggc agt ggg gca ggg aca gat ttc Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ala Gly Thr Asp Phe	288
85 90 95	
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115 120 125	
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130 135 140	
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aac gcc ctc caa tcg ggt aac tcc cag gag agt gtc aca gag cag gac Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp	576
180 185 190	
agc aag gac agc acc tac agc ctc agc agc acc ctg acg ctg agc aaa Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys	624
195 200 205	
gca gac tac gag aaa cac aaa gtc tac gcc tgc gaa gtc acc cat cag Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln	672
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cct ggc ggg tcc ctg aga gtc tcc tgt gca gtc tct gga ttc acc ttc Pro Gly Gly Ser Leu Arg Val Ser Cys Ala Val Ser Gly Phe Thr Phe	35	40	45		144
agt gac cac tac atg tat tgg ttc cgc cag gct cca ggg aag ggg ccg Ser Asp His Tyr Met Tyr Trp Phe Arg Gln Ala Pro Gly Lys Gly Pro	50	55	60		192
gaa tgg gta ggt ttc att aga aac aaa ccg aac ggt ggg aca aca gaa Glu Trp Val Gly Phe Ile Arg Asn Lys Pro Asn Gly Gly Thr Thr Glu	65	70	75	80	240
tac gcc gcg tct gtg aaa gac aga ttc acc atc tcc aga gat gat tcc Tyr Ala Ala Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser	85	90	95		288
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gcc gtc tat tac tgt act aca tcc tac att tca cat tgt cgg ggt ggt Ala Val Tyr Tyr Cys Thr Ser Tyr Ile Ser His Cys Arg Gly Gly	115	120	125		384
gtc tgc tat gga ggt tac ttc gaa ttc tgg ggc cag ggc gcc ctg gtc Val Cys Tyr Gly Tyr Phe Glu Phe Trp Gly Gln Gly Ala Leu Val	130	135	140		432
acc gtc tcc tca gct agc acc aag ggc cca tcg gtc ttc ccc ctg gca Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala	145	150	155	160	480
ccc tcc tcc aag agc acc tct ggg ggc aca gcg gcc ctg ggc tgc ctg Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu	165	170	175		528
gtc aag gac tac ttc ccc gaa ccg gtg acg gtg tcg tgg aac tca ggc Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly	180	185	190		576
gcc ctg acc agc ggc gtg cac acc ttc ccg gct gtc cta cag tcc tca Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser	195	200	205		624
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210

215

220

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Ala Pro Gly Gln Lys Val Thr Ile Ser Cys Thr Gly Ser Thr Ser Asn
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Ile Gly Gly Tyr Asp Leu His Trp Tyr Gln Gln Leu Pro Gly Thr Ala
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Pro Lys Leu Leu Ile Tyr Asp Ile Asn Lys Arg Pro Ser Gly Ile Ser
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Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ala Ala Ser Leu Ala Ile
85 90 95

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Thr Gly Leu Gln Thr Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr
100 105 110

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Asp Ser Ser Leu Asn Ala Gln Val Phe Gly Gly Thr Arg Leu Thr
115 120 125

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Val Leu Gly Gln Pro Lys Ala Ala Pro Thr Val Thr Leu Phe Pro Pro
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tgg aag tcc cac aga agc tac agc tgc cag gtc acg cat gaa ggg agc		672
Trp Lys Ser His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly .Ser		
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		15
gtc ctg tcc cag gtg cag ctg cag gag tcg ggc cca gga ctg gtg aag		96
Val Leu Ser Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys		
20	25	30
cct tcg gag acc ctg tcc ctc acc tgc gct gtc tct ggt ggc tcc atc		144
Pro Ser Glu Thr Leu Ser Leu Thr Cys Ala Val Ser Gly Gly Ser Ile		
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Ser Gly Gly Tyr Gly Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly		
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Leu Glu Trp Ile Gly Ser Phe Tyr Ser Ser Ser Gly Asn Thr Tyr Tyr		
65	70	75
		80
aac ccc tcc ctc aag agt caa gtc acc att tca aca gac acg tcc aag		288
Asn Pro Ser Leu Lys Ser Gln Val Thr Ile Ser Thr Asp Thr Ser Lys		
85	90	95
aac cag ttc tcc ctg aag ctg aac tct atg acc gcc gcg gac acg gcc		336
Asn Gln Phe Ser Leu Lys Leu Asn Ser Met Thr Ala Ala Asp Thr Ala		
100	105	110
gtg tat tac tgt gtg aga gat cgt ctt ttt tca gtt gtt gga atg gtt		384
Val Tyr Tyr Cys Val Arg Asp Arg Leu Phe Ser Val Val Gly Met Val		
115	120	125
tac aac aac tgg ttc gat gtc tgg ggc ccg gga gtc ctg gtc acc gtc		432
Tyr Asn Asn Trp Phe Asp Val Trp Gly Pro Gly Val Leu Val Thr Val		
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Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu			
195	200	205	
tac tcc ctc agc agc gtg gtg acc gtg ccc tcc agc agc ttg ggc acc			672
Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr			
210	215	220	
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Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val			
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Asp Lys Lys Ala Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro			
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275	280	285	
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290	295	300	
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Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro			
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Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val			
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